BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: YELAHANKA

SUB DIVISION: YELAHANKA SATELLITE TOWN

Name of Work: Modified Estimate for Construction of Garadi Mane at Nisarga Ground Yelahanka 4th Phase in Someshwara Ward No. 03 of Yelahanka Satellite Town Sub Division.

Job Code: 003-23-000003

Estimated Cost:	**Rs. 30.00 Lakh(s)**
Approved Cost:	**Rs. 23.62 Lakhs**
Modified Cost:	**Rs. 23.61 Lakhs**

BRUHAT BENGALORU MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Modified Estimate for Construction of Garadi Mane at Nisarga Ground Yelahanka 4th Phase in Someshwara Ward No. 03 of Yelahanka Satellite Town Sub Division.

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Est. Cost Rs. Rate	2361097.00 Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.	Cum							
	Column Footings								
	SSM Footing		10	3.00	3.00	2.00	180.00		
	Along Long Direction		2	19.60	0.80	0.75	23.52		
	Along Short Direction		5	7.30	0.80	0.75	21.90		
			3	3.20	0.75	0.75	5.40		
	Deductions								
	Columns		10	3.00	0.75	0.75	-16.88		
							213.95		
							213.95	203.00	43431.00
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications	Cum							
	Flooring Area:-Rooms		10	3.00	3.00	0.10	9.00		
							9.00	2619.00	23571.00
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation.The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usages charges of machineries, curing and all the other appurtenances required to complete the work as per technical specifications.(The cost of steel reinforcement & form work shall be paid separately) Mix 1:3:6 (M10)Using 40mm nominal size graded crushed coarse aggregates.	Cum							
	Column Footings								
	SSM Footing		10	3.00	3.00	0.15	13.50		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Along Long Direction		2	19.60	0.75	0.15	4.41		
	Along Short Direction		5	7.30	0.75	0.15	4.11		
			3	3.20	0.75	0.15	1.08		
	Deductions								
	Columns		10	3.00	0.75	0.15	-3.38		
							19.72		
							19.72	5681.00	112036.00
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) MIX 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates	Cum							
	SSM Above								
			Not Executed				0.00	6236.00	0.00
5	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22**	Cum							
	1st Course								
	Along Long Direction		2	19.60	0.60	0.45	10.58		
	Along Short Direction		5	7.30	0.60	0.45	9.86		
	Partition		3	3.20	0.45	0.45	1.94		
	Deductions								
	Columns		10	3.00	0.60	0.45	-8.10		
							14.28		78183.00
							14.28	5475.00	78199.00
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	Cum							
	Filling Availabe of Excavated Earth								
	Earthwork Excavation		Qty Vide Item No. 01				213.95		
	PCC for Footing		Qty Vide Item No. 3 & 4				-19.72		
	Filling in Foundation with Granite / broken metal		Qty Vide Item No. 2				-9.00		
	SSM Footing		Qty Vide Item No. 5				-14.28		
	Footing Concrete Qty		Qty Vide Item No. 9				-58.50		
	Total Qty						112.44		
	Qty upto 125%						89.28	208.00	18569.00
	Qty above 125%						23.17	208.47	4829.00
	Basic Rate	204.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Area Weightage @ 10%	20.40							
	Total	224.40							
	Tender Premium @ -7.10%	-15.93							
	Grand Total	208.47							
7	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)	Cum							
	Earthwork Excavation						213.95		
	Filling Available Earth						-112.44		
	Total						101.50	75.00	7613.00
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km	T.Km							
	Qty Vide Item No. 07			101.50	1.28		129.92		
							129.92	98.00	12732.00
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate	Cum							
	Column Footings								
	Column below Plinth		10	3.00	3.00	0.65	58.50		
	Plinth Beam		10	0.30	0.45	0.60	0.81		
	Along Long Direction		2	19.30	0.23	0.30	2.66		
	Along Short Direction		5	7.30	0.23	0.30	2.52		
							64.49		
							64.49	6620.00	426936.00

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
10	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate	Cum							
	Ground Floor								
	Columns upto Beam Bottom		10	0.23	0.45	3.00	3.11		
							3.11	6961	**21614.00**
11	**Roof Slab**								
			1	19.30	7.60	0.15	22.00		
	Front Extension		1	4.00	0.90	0.15	0.54		
	Slab above Toilet		1	3.20	1.60	0.15	0.77		
							23.31	7593	**176993.00**
12	**Beams**								
	Along Long Direction		2	19.30	0.23	0.30	2.66		
	Along Short Direction		5	7.30	0.23	0.30	2.52		
			1	5.50	0.30	0.15	0.25		
	inside Walls		1	3.20	0.15	0.15	0.07		
							5.50	7593	**41772.00**
13	**Lintel**								
	Along Long Direction		2	19.30	0.15	0.15	0.87		
	Along Short Direction		4	7.30	0.15	0.15	0.66		
	inside Walls		3	3.20	0.15	0.15	0.22		
			1	1.50	0.15	0.15	0.03		13815
							1.78	7593	~~13479.00~~
14	**Chejjas**								
	Inside								
	Enterance Room		1	5.30	0.45	0.075	0.18		
			1	3.75	0.45	0.075	0.13		
	Inside Hall		2	4.90	0.45	0.075	0.33		
	Outside Chejjas								
			1	2.40	0.45	0.075	0.08		
			1	2.10	0.45	0.075	0.07		
			1	1.80	0.45	0.075	0.06		
			1	2.10	0.45	0.075	0.07		
			1	2.10	0.45	0.075	0.07		
	Total Qty						**0.99**		
	Qty upto 125%						**0.36**	9176	**3326.00**
	Qty above 125%						**0.63**	9166.14	**5757.00**
	Basic Rate	6186.00							
	Add 45% for Shuttering	2783.70							
	Sub Total	8969.70							
	Area Weightage @ 10%	896.97							
	Total	9866.67							
	Tender Premium @ -7.10%	-700.53							
	Grand Total	9166.14							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
15	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately	Kgs					10055.91		
							10055.91	98.00	**985479.00**
16	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications	Sqm							
			Not Executed				**0.00**	1223.00	**0.00**
17	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications	Sqm							
	Ground floor:-		Not Executed						
							0.00	961.00	**0.00**
18	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications	Sqm							
	Ground Floor:-								
	Long Walls		2	19.30		2.85	110.01		
	Short Walls		4	7.30		2.85	83.22		
			2	3.20		2.10	13.44		
			1	3.20		2.85	9.12		
	Toilet Wall		1	1.50		2.10	3.15		
							218.94		
	(-)Deductions:-D		1	1.25		2.10	2.63		
	D1		3	1.10		2.10	6.93		
	D2		1	0.90		2.10	1.89		
	D3		2	0.80		2.10	3.36		
	Windows		3	1.80		1.00	5.40		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			3	1.80		0.80	4.32		
	V		2	1.50		0.70	2.10		
			2	0.90		0.70	1.26		
	Columns		2	0.60		0.45	0.54		
			4	0.45		3.00	5.40		
			6	0.23		3.00	4.14		
	Total Qty						-37.97		
	Parapet Wall						180.98		
			2	19.30		0.90	34.74		
	Total Qty		2	7.30		0.90	13.14		
	Qty upto 125%						228.86		
	Qty above 125%						37.88	1091.00	41322.00
							190.98	1084.24	207067.00
	Basic Rate	1061.00							
	Area Weightage @ 10%	106.10							
	Total	1167.10							
	Tender Premium @ -7.10%	-82.86							
	Grand Total	1084.24							
19	Providing and laying Cement concrete flooring 40 mm thick with 20 mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete	Sqm							
	Ground Floor -								
	Enterance Room		1	7.30	5.50		40.15		
	Enterance Portion		1	3.20	1.50		4.80		
	Small Room		1	3.20	2.10		6.72		
			1	3.20	1.60		5.12		
	Toilets		2	1.60	1.50		4.80		
	Big Hall		1	10.05	7.30		73.37		
							134.96	409.00	55197.00
20	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates	Cum							
	Ground Floor:-								
	Enterance Room		1	7.30	5.50	0.10	4.02		
	Enterance Portion		1	3.20	1.50	0.10	0.48		
	Small Room		1	3.20	2.10	0.10	0.67		
			1	3.20	1.60	0.10	0.51		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Sets								
	Big Hall		2	1.60	1.50	0.10	0.48		
			1	10.05	7.30	0.10	7.34		81202
							13.50	6015.00	81175.00
21	Construction of Embankment by excavating the available approved Gravel / Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work	Cum							
			Not Executed				0.00	411.00	0.00
							TOTAL AMOUNT RS.		2361097.00

Rupees Twenty Three Lakh(s) Sixty One Thousand Ninety Seven Only

Assistant Engineer
Ward No. 03

Assistant Executive Engineer
Yelahanka Satellite Town Sub-

Executive Engineer
Yelahanka Division

Technical Sanction
Accorded For Rs.2361097/-
Head of A/C.P3726
CER NO :.50..... Dt:10.08.23

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